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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,232	04/24/2006	Masahiro Shioi	1152-0321PUS1	4876

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BIRCH STEWART KOLASCH & BIRCH
PO BOX 747
FALLS CHURCH, VA 22040-0747

EXAMINER

RICE, ELISA M

ART UNIT	PAPER NUMBER
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2624

NOTIFICATION DATE	DELIVERY MODE
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10/16/2008

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary	Application No. 10/541,232	Applicant(s) SHIOI ET AL.	
	Examiner ELISA M. RICE	Art Unit 2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 May 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>6/17/2008</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

Amendment/Response filed on 5/28/2008 has been received. Claims 1-12 are currently pending.

Response to Arguments

Applicant's Argument

"The rejection implies that Figure 4 of Oshima shows image placement information that indicates a placement mode of the images from different viewpoints when the images are integrated. To the contrary, Figure 4 shows address information for where to find stored video data. It neither indicates a placement mode of the images from different viewing points, nor does it indicate what the placement mode will be when the images are integrated. Oshima does not even disclose that there can be different placement modes, much less that they should be assigned image placement information that selects one placement mode from among a variety of available placement modes. Likewise, claim 7 requires an analyzing means that analyzes an integration" (Remarks, first part of second paragraph, page 3).

Examiner's Response:

Fig. 4 of Oshima shows "Stereoscopic Video Arrangement Table", a diagram showing stereoscopic video arrangement information or image placement information. This is further discussed in Fig. 15, num. 62e, "Reading of Stereoscopic Video Arrangement

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Information.” As shown in Fig. 18, the arrangement of stereoscopic video is shown in each layer. 000 means there is no stereoscopic video or progressive at all. 110 means an entire stereoscopic video. 001 means a mixture of stereoscopic portion and non-stereoscopic portion. In Fig. 18, title 1 of VTS layer is 001 meaning a mixture of 3D and ordinary video, title 2 is 110 meaning an entire stereoscopic video. Title 3 is 000 meaning there is no stereoscopic video. Therefore, in the layers beneath titles 2 and 3, stereoscopic information is not necessary. While placement modes can be read to mean the different display formats such as monoscopic, line-interleaved, cross-eye, parallel, and page-flipping, a broader interpretation of the term does not necessitate such a narrow definition of the term. It is suggested that this terminology be more narrowly defined to reflect Applicant's meaning.

Applicant's Argument:

“Likewise, claim 7 requires an analyzing means that analyzes an integration information that indicates whether an image placement information that indicates a placement mode of the images having been integrated, and reproduces the plurality of images using the, integration information and the image placement information. The address information in Figure 4 is not indicative of a placement mode of the images that have been integrated. It is merely an indication of where to get the video data, not how to place it based upon a placement mode.” (Remarks, lower half of second paragraph, page 3)

Examiner's Response:

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As shown in Fig. 18, the arrangement of stereoscopic video is shown in each layer. 000 means there is no stereoscopic video or progressive at all. 110 means an entire stereoscopic video. 001 means a mixture of stereoscopic portion and non-stereoscopic portion. In Fig. 18, title 1 of VTS layer is 001 meaning a mixture of 3D and ordinary video, title 2 is 110 meaning an entire stereoscopic video. Title 3 is 000 meaning there is no stereoscopic video. Therefore, in the layers beneath titles 2 and 3, stereoscopic information is not necessary.

Applicant's Argument:

“ The rejection indicates that Matsuo teaches, referring to paragraph 0055 and Figure 9, image placement information which is information on the placement mode in which the viewpoint images are positioned by rotation by a predetermined angle. To the contrary, paragraphs 0053-0055 make it clear that the direction setting table 707 is used to generate data to be stored, but neither the codes nor the information is stored. The codes and information is merely used by the algorithm to generate the matrix of video data to be stored” (Remarks, first couple sentences of third paragraph, page 4).

Examiner's Response:

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., that the code and information be stored) are not recited in the rejected claim(s).

Although the claims are interpreted in light of the specification, limitations from the

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specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Applicant's Argument: “Moreover, in addition to failing to teach the storage of placement mode information, Matsuo also does not teach the storage of integration status information. Therefore, Matsuo cannot remedy the defects of Oshima discussed above with respect to claims 1 and 7, and since the secondary reference to Matsuo neither discloses nor suggests the storage of both the integration and placement mode information, as recited in claims 2-6 and 8-12, the Office Action fails to make out a *prima facie* case of obviousness of the subject matter recited in currently pending claims 2-6 and 8-12.” (Remarks, lower half of third paragraph, page 4)

Examiner's Response:

Examiner does not rely on Matsuo to teach the storage of placement mode information or the storage of integration status information. These elements are taught by Oshima as discussed in the Examiner Responses above.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Oshima (WO97/32437 A1). Oshima EP 1693844 A2 is an equivalent, and will be relied upon and referred to herein as the translation.

Regarding claim 1, Oshima discloses an image data generating apparatus for generating image data of a predetermined data format from a plurality of images corresponding to a plurality of viewpoints, comprising: an information generating means for generating an integration information that indicates whether images from different viewpoints have been integrated or not (Oshima, Fig. 18) and an image placement information that indicates a placement mode of the images from different viewpoints when the images are integrated, wherein the data format includes the integration information and the image placement information (Oshima, Fig. 4).

Regarding claim 7, Oshima discloses an image data reproducing apparatus for reproducing a plurality of images corresponding to a plurality of viewpoints, from image data of a predetermined data format, comprising: an analyzing means for analyzing the predetermined data format, wherein the analyzing means analyzes an integration information that indicates whether images from different viewpoints have been integrated or not (Oshima, Fig. 17) and an image placement information that indicates a placement mode of the images having been integrated (Oshima, Fig. 4), and reproduces the plurality of images using the integration information and the image placement information (Oshima, Fig. 15).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2-6 and 8-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oshima et al. (WO97/32437 A1) and Matsuo et al. (EP 0971261 A2). Oshima EP 1693844 A2 is an equivalent, and will be relied upon and referred to herein as the translation.

Regarding claims 2 and 3, while Oshima discloses the image data generating apparatus according to claim 1, Oshima does not specifically disclose wherein the image placement information is information on the placement mode in which the viewpoint images are positioned by rotation of a predetermined angle. wherein the predetermined angle is one or plural among 0 degrees, 90 degrees clockwise, 180 degrees clockwise and 270 degrees clockwise.

Matsuo teaches wherein the wherein the image placement information is information on the placement mode in which the viewpoint images are positioned by rotation of a predetermined angle, wherein the predetermined angle is one or plural among 0 degrees, 90 degrees clockwise, 180 degrees clockwise and 270 degrees clockwise (Matsuo, paragraph 55, Fig. 9).

It would have been obvious at the time of the invention to modify the image display control apparatus of Kawai with the plurality of predefined angles taught by Matsuo in order to define “a rotating direction angle setting table” as described in paragraph 53 where the values 0 through 3 represent rotational information as described in paragraph 55. Paragraph 55 of the Matsuo reference goes on to say that as a result of having a rotating direction angle setting table 707, “the image rotating devices 703 and 704 rotate the image data using a predetermined transformation matrix equation, based on parameters provided by the obtained rotation information.”

Regarding claim 4, while Oshima discloses most of the image data generating apparatus according to claim 1, wherein the image placement information is composed of a placement direction information and placement order information (Oshima, Fig. 4, 18), but Oshima does not explicitly indicate whether the images are arranged vertically or horizontally and whether the images are arranged in an order of the viewpoints or in a reverse order of the viewpoints.

Matsuo teaches wherein whether the images are arranged vertically or horizontally and whether the images are arranged in an order of the viewpoints or in a reverse order of the viewpoints is indicated in the image placement and direction information (Matsuo, Fig. 10)

It would have been obvious at the time of the invention to modify the invention of Oshima with a direction setting table with values from 0 to 3 representing direction information in order to “merge the image data provided by the image rotating devices 703 and 704 based on the merge information taken out from the merge-related information setting table 708 (step S105).” (Matsuo, paragraph 58)

Regarding claim 5, while Oshima discloses the image data generating apparatus according to claim 1, Oshima does not explicitly teach wherein the image placement information is information on the placement mode of the images in which placements of the viewpoint images are positioned by rotation of a predetermined angle, information on the placement mode of the images in which positions of the images are inverted in a

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predetermined direction based on a positional relationship of the viewpoints, or information on a combined mode of the two placement modes.

Matsuo teaches wherein the image placement information is information on the placement mode of the images in which placements of the viewpoint images are positioned by rotation of a predetermined angle, information on the placement mode of the images in which positions of the images are inverted in a predetermined direction based on a positional relationship of the viewpoints, or information on a combined mode of the two placement modes (Matsuo, paragraph 40, paragraph 55 and 56, Fig. 9 and 10).

It would have been obvious at the time of the invention to modify the invention of Oshima with a table of values representing positional information in which placements of the viewpoint images are positioned by rotation of a predetermined angle, information on the placement mode of the images in which positions of the images are inverted in a predetermined direction based on a positional relationship of the viewpoints, or information on a combined mode of the two placement modes because this allows “obtaining a single stereoscopic picture having parallax from two pictures.” (Matsuo, paragraph 6)

Regarding claim 6, the combination of Oshima and Matsuo discloses the image data generating apparatus according to claim 5, wherein the predetermined angle is one or plural among 0 degrees, 90 degrees clockwise, 180 degrees clockwise and 270

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degrees clockwise, and the predetermined direction is one or plural among a horizontal direction and a vertical direction (Matsuo, Fig. 9 and 10).

Regarding claim 8 and 9, while Oshima discloses the image data reproducing apparatus according to claim 7, Oshima does not disclose wherein the image placement information is information on the placement mode in which the viewpoint images are positioned by rotation of a predetermined angle, wherein the predetermined angle is one or plural among 0 degrees, 90 degrees clockwise, 180 degrees clockwise and 270 degrees clockwise.

Matsuo teaches wherein the image placement information is information on the placement mode in which the viewpoint images are positioned by rotation of a predetermined angle, wherein the predetermined angle is one or plural among 0 degrees, 90 degrees clockwise, 180 degrees clockwise and 270 degrees clockwise (Matsuo, paragraph 55; Fig. 9).

It would have been obvious at the time of the invention to modify the image display control apparatus of Oshima with the plurality of predefined angles taught by Matsuo in order to define “a rotating direction angle setting table” as described in paragraph 53 where the values 0 through 3 represent rotational information as described in paragraph 55. Paragraph 55 of the Matsuo reference goes on to say that as a result of having a rotating direction angle setting table 707, “the image rotating

devices 703 and 704 rotate the image data using a predetermined transformation matrix equation, based on parameters provided by the obtained rotation information.”

Regarding claim 10, while Oshima discloses the image data reproducing apparatus according to claim 7, wherein the image placement information is composed of a placement direction information and placement order information (Oshima, Fig. 4, 18), but Oshima does not explicitly indicate whether the images are arranged vertically or horizontally and whether the images are arranged in an order of the viewpoints or in a reverse order of the viewpoints.

Matsuo teaches wherein whether the images are arranged vertically or horizontally and whether the images are arranged in an order of the viewpoints or in a reverse order of the viewpoints is indicated in the image placement and direction information (Matsuo, Fig. 10)

It would have been obvious at the time of the invention to modify the invention of Oshima with a direction setting table with values from 0 to 3 representing direction information in order to “merge the image data provided by the image rotating devices 703 and 704 based on the merge information taken out from the merge-related information setting table 708 (step S105).” (Matsuo, paragraph 58).

Regarding claim 11, while Oshima discloses the image data reproducing apparatus according to claim 7, Oshima does not explicitly teach wherein the image placement information is information on the placement mode of the images in which placements of the viewpoint images are positioned by rotation of a predetermined angle, information on the placement mode of the images in which positions of the images are inverted in a predetermined direction based on a positional relationship of the viewpoints, or information on a combined mode of the two placement modes.

Matsuo teaches wherein the image placement information is information on the placement mode of the images in which placements of the viewpoint images are positioned by rotation of a predetermined angle, information on the placement mode of the images in which positions of the images are inverted in a predetermined direction based on a positional relationship of the viewpoints, or information on a combined mode of the two placement modes (Matsuo, paragraph 40, paragraph 55 and 56, Fig. 9 and 10).

It would have been obvious at the time of the invention to modify the invention of Oshima with a table of values representing positional information in which placements of the viewpoint images are positioned by rotation of a predetermined angle, information on the placement mode of the images in which positions of the images are inverted in a predetermined direction based on a positional relationship of the viewpoints, or information on a combined mode of the two placement modes because this allows “obtaining a single stereoscopic picture having parallax from two pictures.” (Matsuo, paragraph 6)

Regarding claim 12, Oshima and Matsuo discloses the image data reproducing apparatus according to claim 7, wherein the predetermined angle is one or plural among 0 degrees, 90 degrees clockwise, 180 degrees clockwise and 270 degrees clockwise, and the predetermined direction is one or plural among a horizontal direction and a vertical direction (Matsuo, Fig. 9 and 10).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ELISA M. RICE whose telephone number is (571)270-

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1582. The examiner can normally be reached on 12:00-8:30p.m. EST Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vikkram Bali can be reached on (571)272-7415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elisa M Rice/

Examiner, Art Unit 2624

/Vikkram Bali/

Supervisory Patent Examiner, Art Unit 2624